EXPEDITED PROCEDURE - EXAMINING GROUP 2879

S/N 09/145.595

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Ji Ung Lee

Examiner: Karabi Guharay

Serial No.:

09/145,595

Group Art Unit: 2879

Filed:

07/173,373

September 2, 1998

Docket: 303.537US1

Title:

FIELD EMISSION DEVICES HAVING STRUCTURE FOR REDUCED

EMITTER TIP TO GATE SPACING

AMENDMENT & RESPONSE UNDER 37 C.F.R. § 1.116

Box AF Commissioner for Patents Washington, D.C. 20231

In response to the Final Office Action mailed February 22, 2001, please amend the application as follows:

IN THE CLAIMS

Please add the following new claims:

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47. (New) A field emitter array, comprising:

a number of cathodes in rows along a substrate;

a gate insulator located along the substrate and surrounding the cathodes, the gate insulator having a gate line region thickness;

a number of gate lines coupled to the gate insulator, wherein a gate to cathode distance between a portion of the gate line and the cathode is substantially thinner than the gate line region thickness; and

a number of anodes located in columns orthogonal to and opposing the rows of cathodes.

- 48. (New) The field emitter array of claim 47, wherein the number of cathodes include polysilicon cones.
- 49. (New) The field emitter array of claim 47, wherein the number of gate lines include refractory metals.

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